

08/09/2011

Atty. Dkt. No. 032968-0134

Amendments to the Specification:

Please amend the specification as follows:

Please insert the following new paragraph after paragraph 0046:

Figure 23 is a cross-sectional side view of a rotor having a W-W shaped profile.

Please amend paragraph 0054 as follows:

The rotor 30 can include a grooved portion 36 disposed between the first side 32 and the second side 34 of the rotor 30 to prevent a magnetic field from shunting along the rotor 30. The grooved portion 36 can be formed so that other portions (i.e., non-grooved portions) of the rotor 30 have a thickness that is sufficiently greater than a thickness of the grooved portion 36 to prevent a substantial path for magnetic flux across the rotor 30. For example, the thickness of the grooved portion 36 can be approximately 0.25 to 0.33 mm, and the thickness of first and second ends 32, 34 can be approximately 2.44 mm. The grooved portion 36 can include grooves 36a and protrusions 36b, which can be configured for ease of manufacture. As shown in Fig. 2, the grooves 36a and protrusions 36b, in one embodiment, preferably have a W-shaped profile that can be formed by rolling as opposed to machining. In this manner, the rotor 30 can be formed without an additional machining step. The grooves 36a and the protrusions 36b can also have other profiles, such as a saw tooth profile, a V-W shaped profile, and a W-W shaped profile. For example, a rotor 30a can include a grooved portion 37 having a W-W shaped profile, as shown in the example of Fig. 23.